XIPmite 801 IP phone

User guide

The latest version of this user guide is always available via
XIP Technology's web page:

http://www.xiptec.com/

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This equipment is not designed for making emergency calls when the power fails. Alternative arrangements should be made for access to dial emergency services.

READ THE USER GUIDE BEFORE OPERATING THIS PRODUCT.

Important!
Save this box and inner packaging. The original packaging must be used to avoid damage while in transit if this merchandise should ever require service. Such damage will not be covered by warranty.

1 General description

The XIPmite 801 IP phone makes VoIP calls using the SIP and MGCP protocols.

The intercom/office switch function enables home or office user to establish a private communication solution.

New e-mails can be read, deleted or replied to. Replies are sent as a sound file attachment to the remote e-mail account.

Access to web pages is just a button away. Read the latest news, sports, weather forecasts or whatever you like.

Management is done either via LCD menu, keypad commands or the built-in web interface.

The built-in firewall and an optional software module that detects and warns of intrusion attempts maintain security.

2 Installation

If a pre-configured SIM card exists, all settings are automatically configured in the XIPmite 801 IP phone during start-up.

2.1 Physical

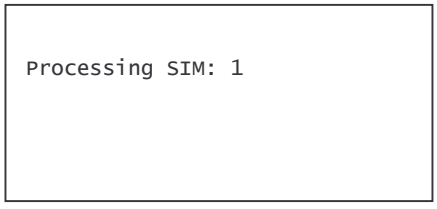
- Insert the SIM-card if it available.
- Connect the XIPmite 801 IP phone to the IP network via the RJ45 Ethernet connector.
- Connect the XIPmite 801 IP phone to 12V DC via provided power adapter.
- Wait while SIM card is read and phone restarts. The XIPmite 801 IP phone is now ready for use.

2.2 Network

- If a pre-configured SIM-card is available, the following steps are unnecessary.
- Default IP address is DHCP assigned.
- Enter IP address, subnet mask, default gateway as described in **6.6** or **8.8**.
  Important! Restart the XIPmite 801 IP phone, broadband routers and switches after changing IP address.
- Ensure that any existing firewall allows UDP packets on port 45000 and 5060 in both directions, or the ports configured in ‘SIP settings’; (if STUN is not active)

2.3 Phone account configuration

- Insert SIM-card if it exists. Wait while the SIM card is read and phone restarts. Phone is now ready for use.
- If your operator does not provide account credentials via SIM card, manual configuration is needed. See chapter **6** and **8**.



2.4 Add-on modules

The add-on module bay on the back of the XIPmite 801 IP phone enables new hardware upgrades to the phone.

Examples of add-on modules are:
XIPmite 802 - Bluetooth and PS2 keyboard
XIPmite 803 - ATA, Analog Telephone Adapter

To install an add-on module:

- Unplug the XIPmite 801 IP phone from power.
- Insert the add-on module into the add-on module bay of the back of the phone. Make sure that the module ‘clicks’ into the fastening tabs.
- Turn power on. The module is automatically recognized, and new LCD and web menus will be visible if required.

2.5 Software upgrades

Software upgrades can be of two types:

1. Software updates
2. New features

Calling the IP address of the upgrade server will complete the installation.
Either XIP Technology or the broadband phone operator provides the updates.

3 Making phone calls

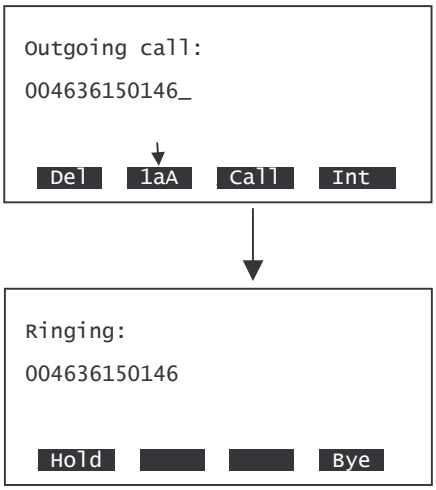
3.1 SIP mode

3.1.1 Outgoing call to phone number

- Lift hook. A tone is heard if the phone is registered with a SIP registrar, using an account with a broadband phone operator.

- Enter the destination phone number or SIP address followed by ‘Call’ or ‘#’. If waiting more seconds than the ‘Keyboard timeout’ value, the number is automatically dialed, (see chapter **6.13**, **8.3** or **9.4**).

See how to edit text in chapter **7**.

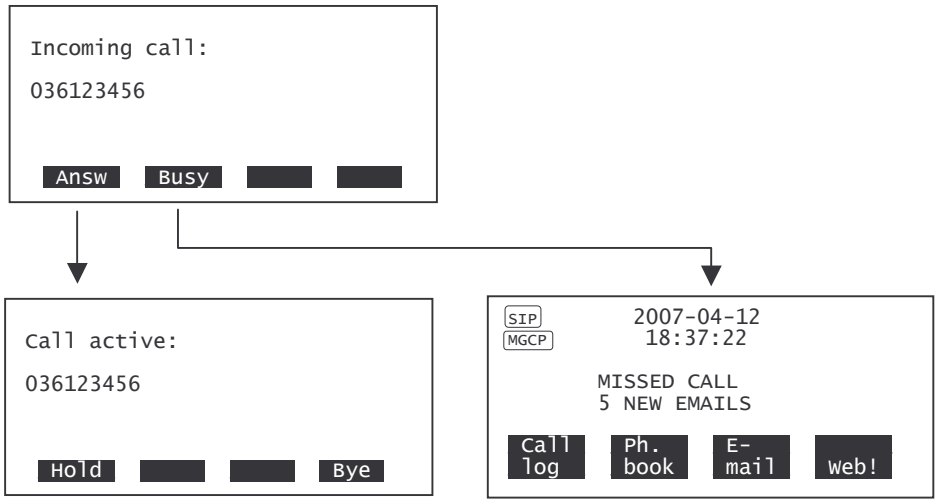


3.1.2 Incoming call

An incoming call can be answered in three ways:

- Lifting handset.
- Pressing speaker button.
- Pressing ‘Answ’ button (same as pressing speaker button).

Pressing the ‘Busy’ button gives the ringing party a busy message.

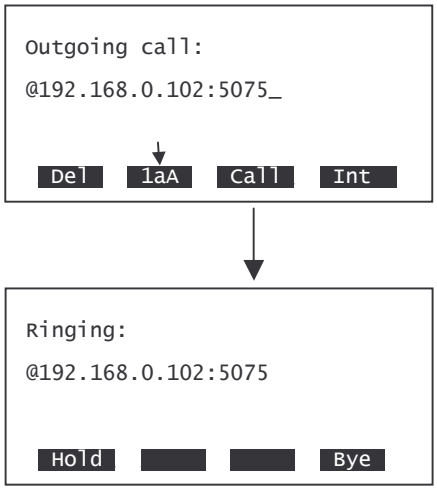


3.1.3 Outgoing call direct to IP address

If an @ is included in the phone number, the call is sent directly to the destination after the '@' character, and not via the SIP proxy.
The example below sends a SIP request to the IP address 192.168.0.102 using port 5075.

- Enter the destination IP address followed by 'Call' or '#'. If waiting more seconds than the 'Keyboard timeout' value, the number is automatically dialed (see chapter **6.13**, **8.3** or **9.4**).

See how to edit text in chapter **7**.



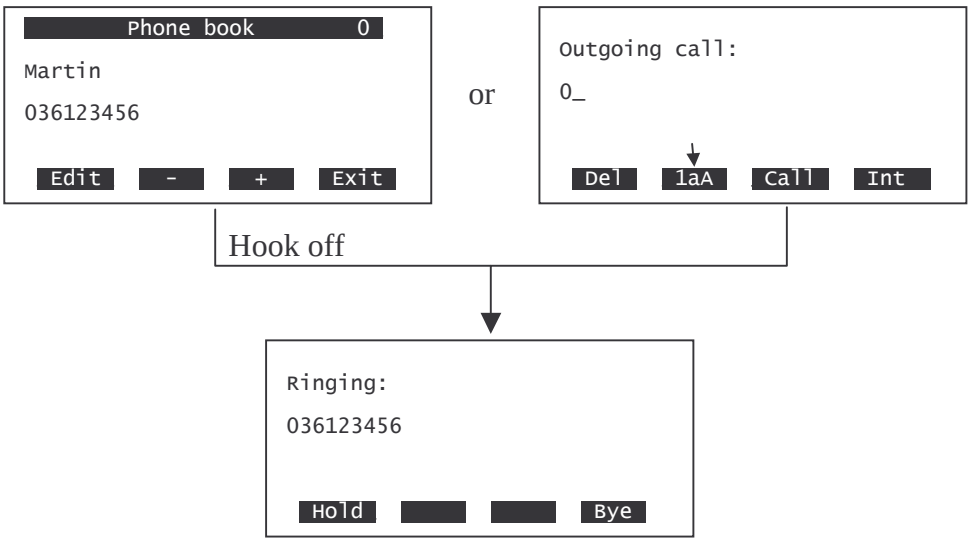
3.1.4 Outgoing call via phone book

Dialing from the phone book can be made in two ways:

1. Press the key ‘Ph.book’ and go to the desired entry using the ‘+’ or ‘-‘ keys.
   Lift hook or press speaker-button.

2. If the number to dial is maximum 2 digits, it is considered a phone book entry and the XIPmite 801 IP phone gets the number to dial from the corresponding post in the phone book.
   Lift hook or press speaker button.
   Enter the phone book number, followed by ‘Call’ or ‘#’. If waiting more seconds than the ‘Keyboard timeout’ value, the number is automatically dialed (see chapter **6.13**, **8.3** or **9.4**).

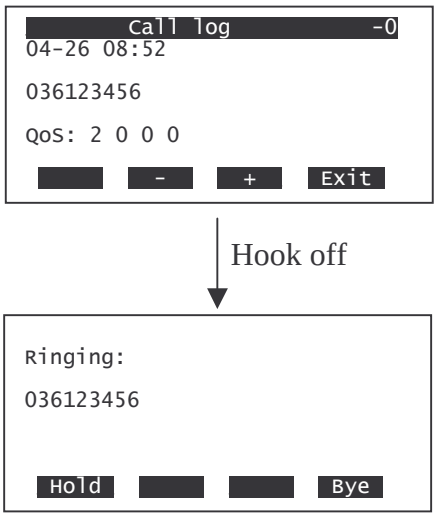
The example below dials the post saved in phone book post 0.



3.1.5 Outgoing call via call log

Dialing from the call log:

- Press the key ‘Call log’ and go to the desired entry using the ‘+’ or ‘-‘ keys.
- Lift hook or press speaker-button.

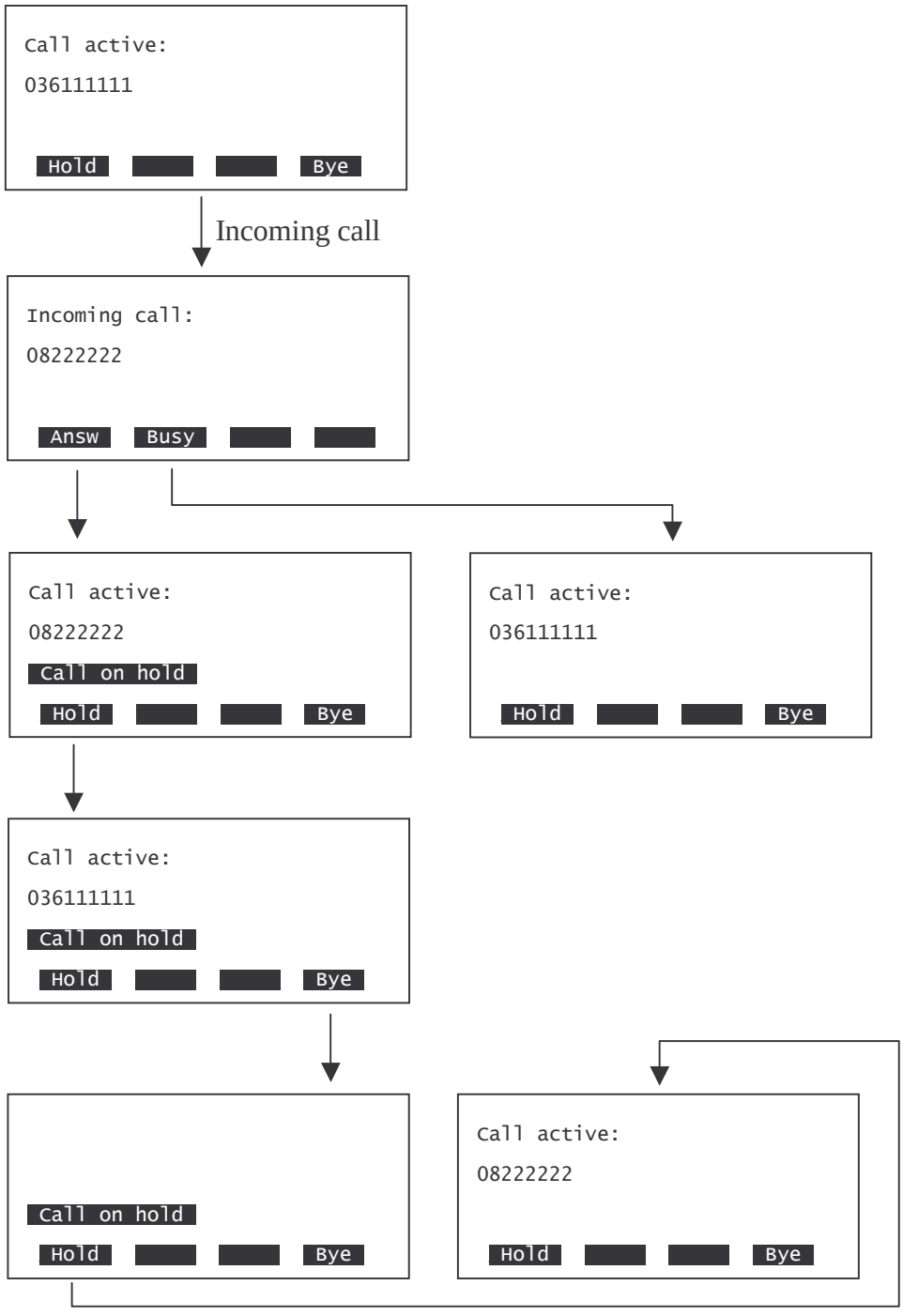


3.1.6 Call features

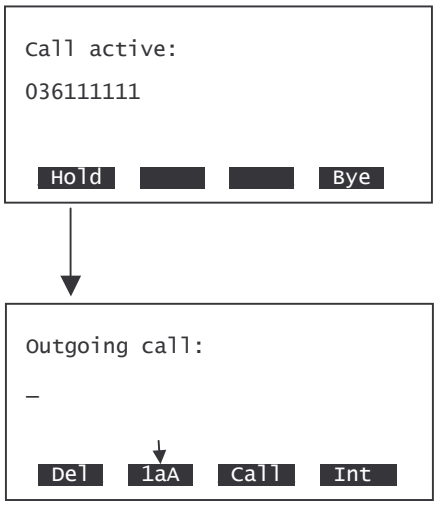
While in a call, a second incoming call is announced by a tone, and a message in the LCD. You then have the option to answer or set as busy.

Switching between calls is made via the ‘Hold’ button.

A call placed on hold is shown in the LCD.



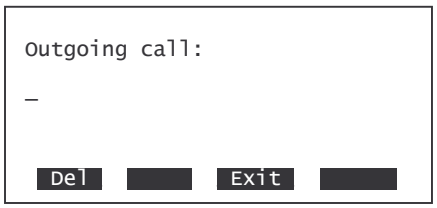
A second outgoing call is made via the ‘Hold’ button.



3.2 MGCP mode

- Lift hook. The MGCP server gives a tone.
- Enter the destination phone number.
- In MGCP mode, there is no need to press ‘Call’ or ‘#’ after the destination number.

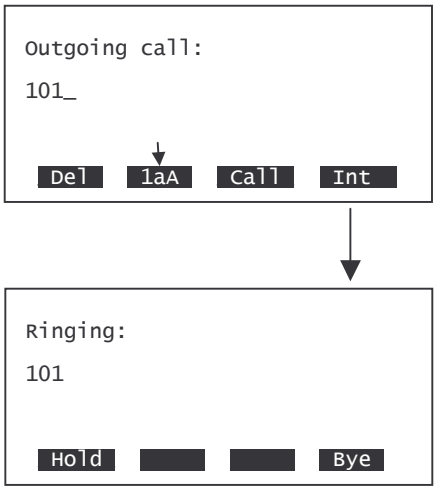
See how to edit text in chapter **7**.



3.3 Extension

- Lift hook. A tone is heard.

- Enter the destination extension. Press the ‘Int’ button.
  If any XIPmite 801 IP phone has that extension configured, it will ring (see chapter **6.2** or **8.10**).



4 Advanced functions

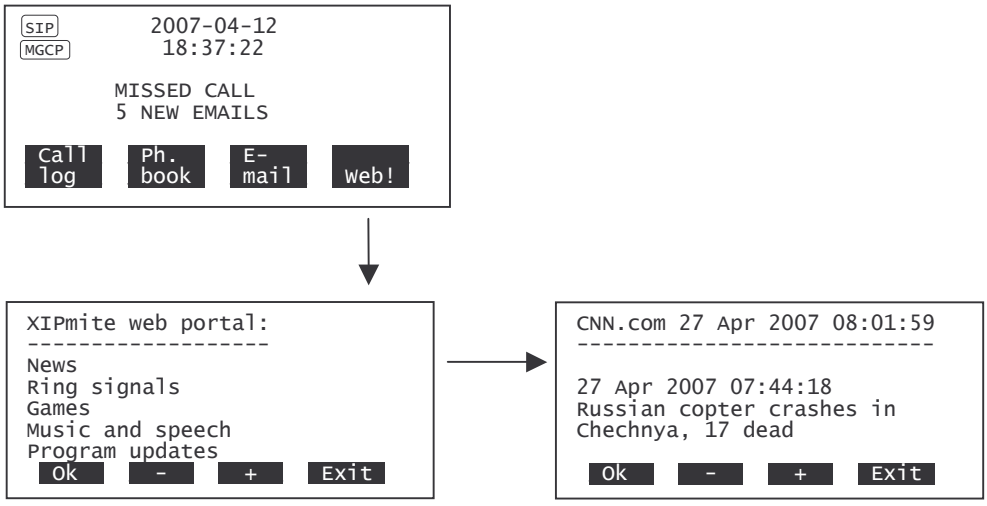
4.1 Web browsing

The XIPmite 801 IP phone has a built-in web browser that is designed to view small web pages or pages specially designed for this phone.

By pressing the ‘Web!’ button, the pre-configured home page is browsed to. Actions in that web portal are up to the operator to provide.

Examples of actions in a web portal:

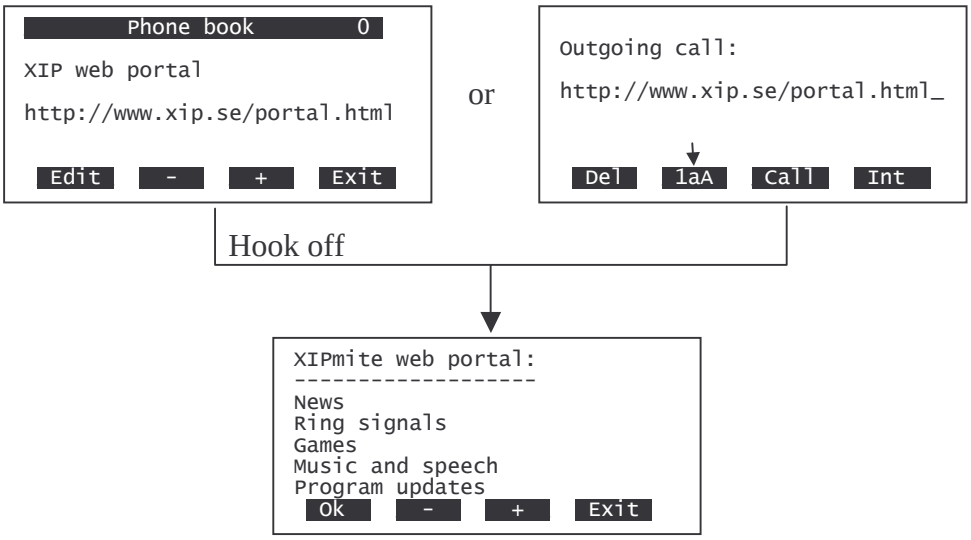
- Reading of news
- Downloading of ring signals
- Downloading of new program updates and features
- Information
- Listening to music and audio books
- Playing online games
- …



The phone can also browse to any web page.
Entering ‘http://’ before the web page address when dialing a number enables this.

See how to edit text in chapter **7**.

Storing web page addresses in the phone book gives a quick way of accessing the web pages.



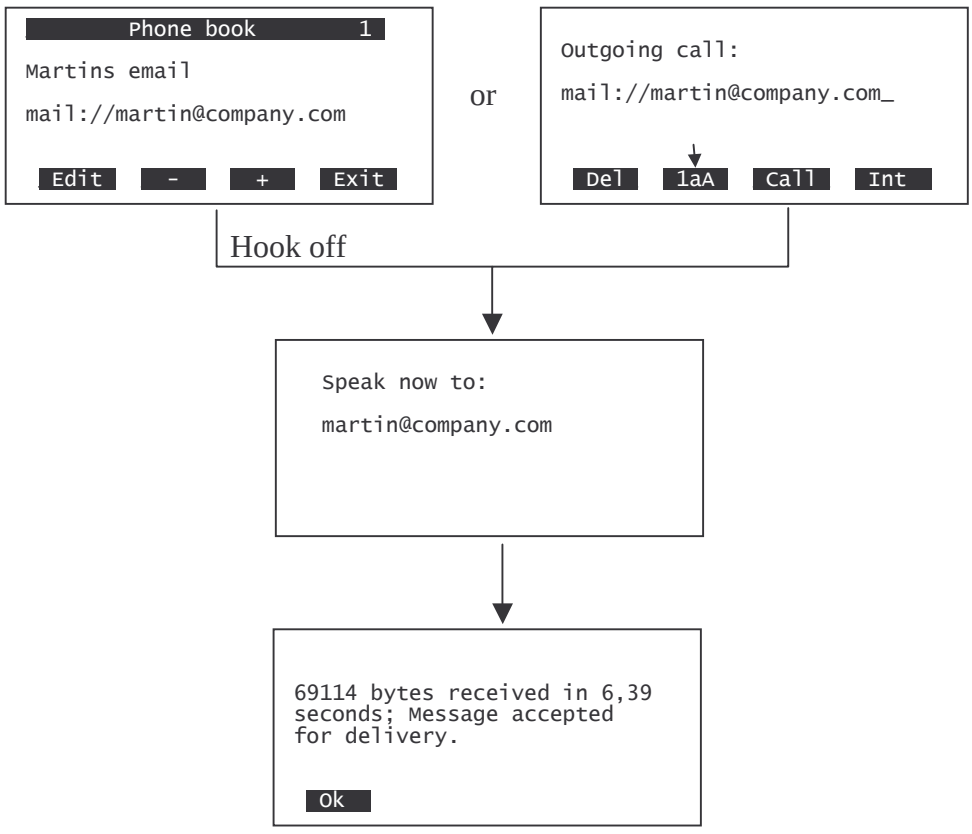
4.2 Voice e-mail

The phone is able to send e-mails.
Entering ‘mail://’ before the e-mail address when dialing a number enables this.

See how to edit text in chapter **7**.

Storing e-mail addresses in the phone book gives a quick way of sending e-mails.

- LCD shows message: ‘Speak now to: ’.
- Start speaking.
- When the hook is on, the recording stops and the LCD indicates that the e-mail is successfully delivered.
- An e-mail is sent with an attached sound file to the destination e-mail address. This file can be played back in the recipient’s computer.



4.3 E-mail reception

See chapter **8.4**

5 Security

The XIPmite 801 IP phone is designed to add extra security features both during calls and provisioning of the user account.

5.1 SIM card

The SIM card enables extra high protection of user account credentials, since they are protected inside the card.
No account information is sent over the Internet either during provisioning or dialing.

5.2 Protected kernel

Most software functions are protected within the host processor of the XIPmite 801 IP phone. Software updates only adds or changes existing functions.
This makes hacking more difficult.

5.3 Firewall

The XIPmite 801 IP phone has a built-in firewall.
The firewall MAC address defines one MAC address only, that is allowed to communicate with the XIPmite 801 IP phone. This prevents other network equipment from accessing the phone.
(See chapter **6.13**, **8.3** or **9.10**)

5.4 Security level

Security levels 0-7 protect the phone. The default level is 1.

This parameter can only be changed via the keypad. All possible values for security level is shown in the table below:

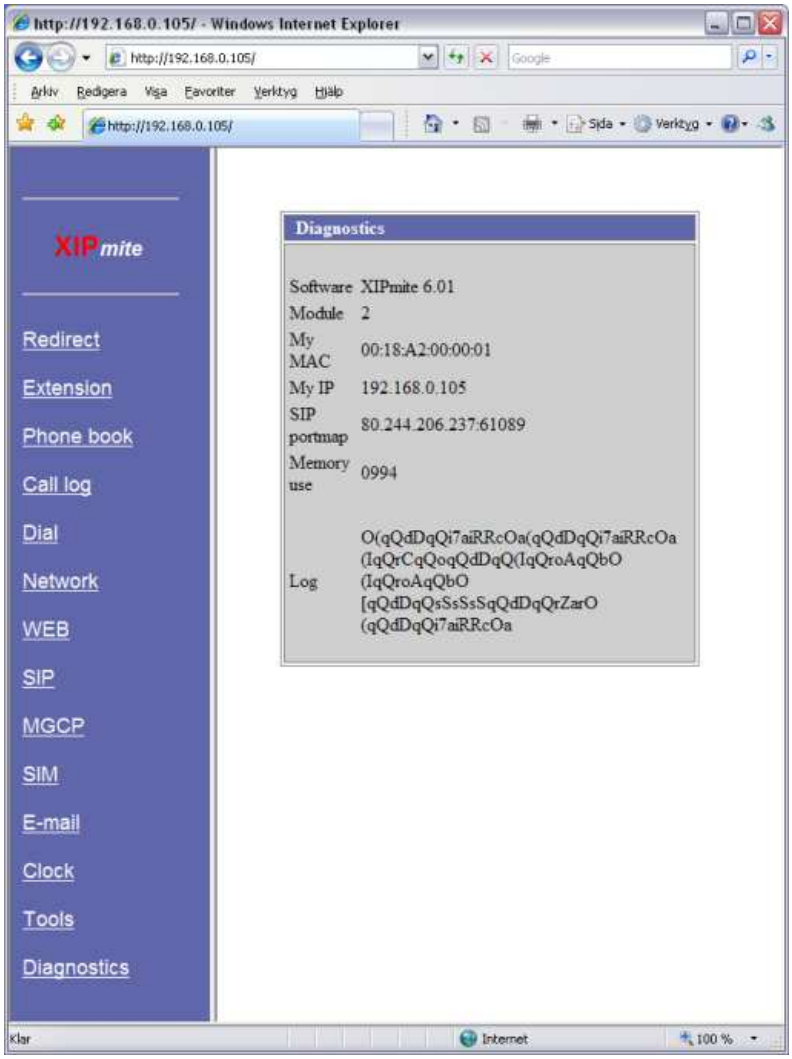
Level	Web server OFF	Software upgrade OFF	Intrusion warning ON
0			
1			X
2		X	
3		X	X
4	X		
5	X		X
6	X	X	
7	X	X	X

5.5 Intrusion detection

(This is optional software, only available in specific products)
In case of a detected ARP poisoning attempt, the XIPmite 801 IP phone gives an alert and presents information of involved MAC addresses. This can be helpful for a network administrator wanting to catch the intruder.

6 Management via the web interface

The built-in web interface is reached by entering the IP address of the XIPmite 801 IP phone in the location toolbar of a web browser.
Example: http://192.168.0.105/
The IP address of the phone is shown in the LCD menu under ‘Diagnostics’, by pressing the ‘FUNCTION’ button.

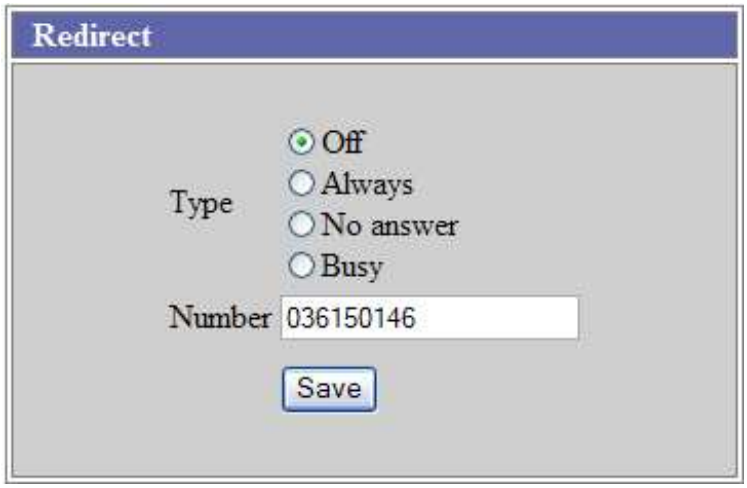


6.1 Redirect

This function makes the phone itself send a redirect message.
Some broadband phone operators does not allow this, and has other ways of centrally redirecting calls.

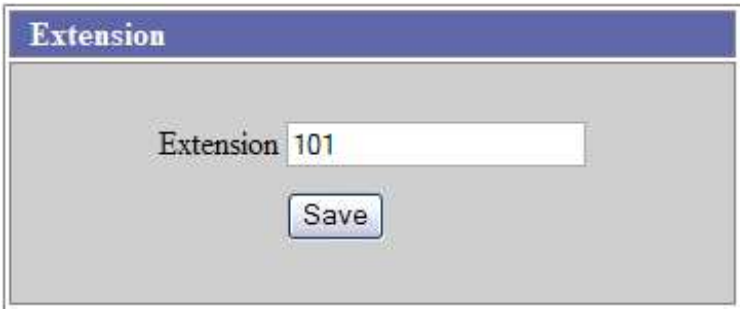
Redirection can be either:

- Off
- Always on
- If no answer within 25 seconds (~5 ring signals)
- If busy



6.2 Extension

Set up an office switch or intercom by assigning an extension number to each phone on the LAN.
Once entered, all other XIPmite 801 IP phones on the LAN can find and dial your extension without any further configuration.



6.3 Phone book

Different types of destinations can be stored in the phone book:

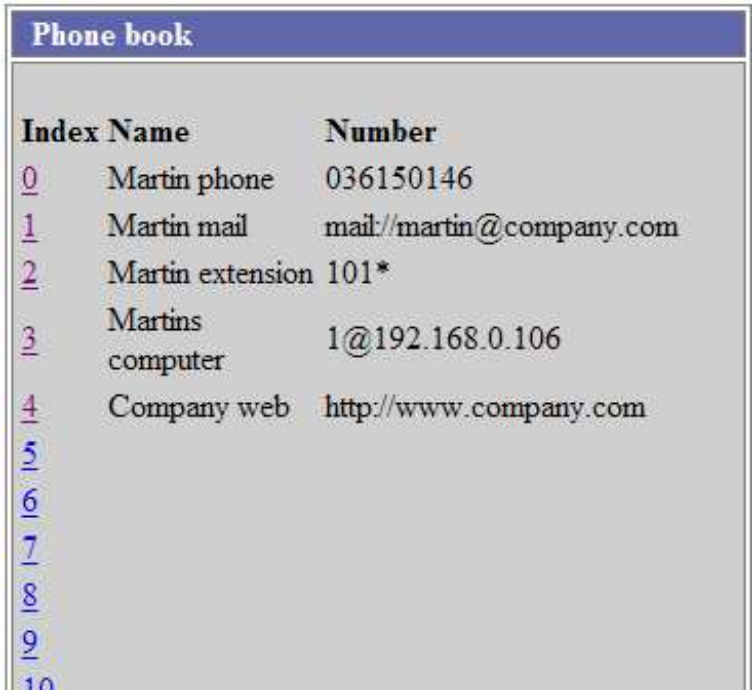
- Phone numbers:
  Numbers are entered with numerical characters. The phone contacts the destination via the configured SIP proxy or MGCP server.

- Extension numbers:
  An extension ends with the character '*'. The phone searches the local LAN for the destination.

- E-mail addresses:
  An e-mail address starts with 'mail://'.

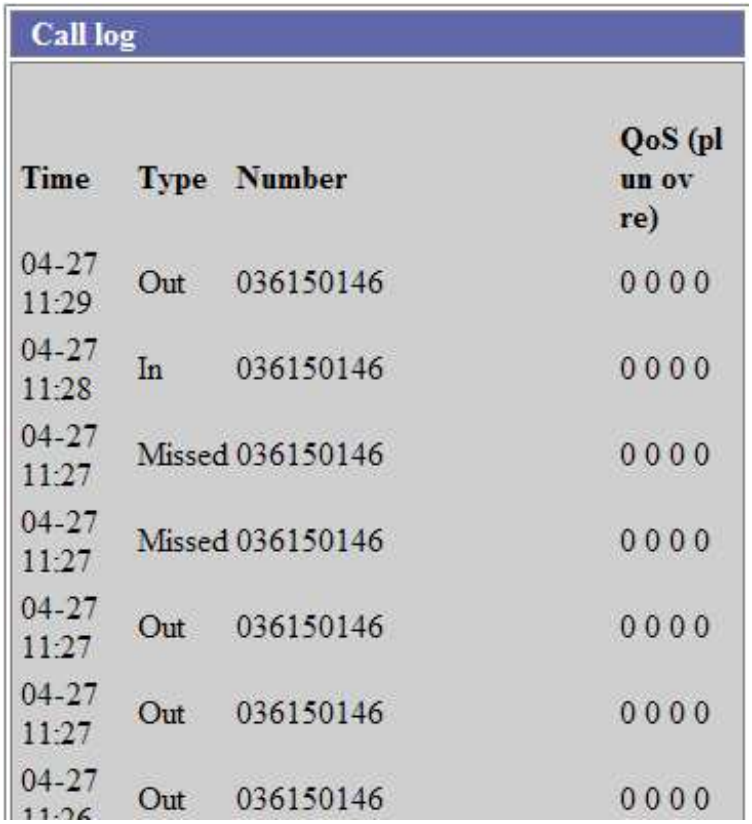
- Web addresses:
  A web address starts with 'http://'.

- IP addresses:
  An IP address has a proceeding '@' character, telling the phone to contact the destination directly without using the SIP proxy.



6.4 Call log

The call log shows incoming, missed and outgoing calls along with registered time.
It also shows quality of service parameters for each call: Packet loss, buffer underrun, buffer overrun and packet disorders.
This information is helpful in troubleshooting the network.

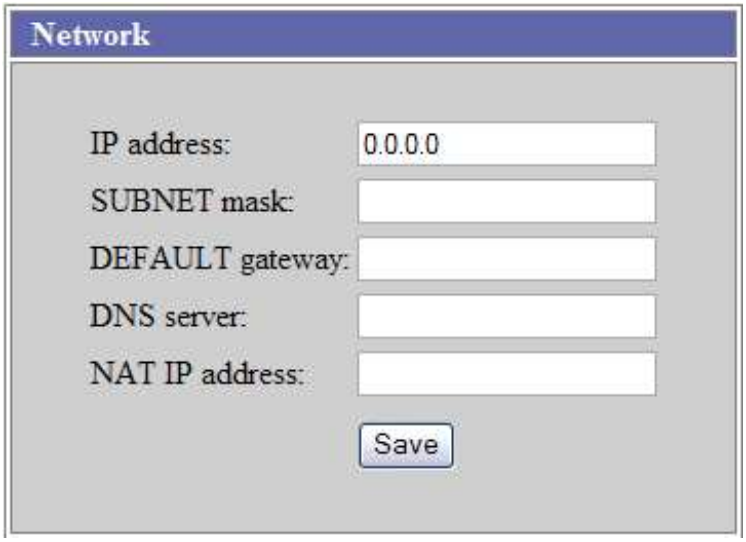


6.5 Web based dialing

After entering a destination phone number, SIP address or IP address. The XIPmite 801 IP phone starts to ring. Lifting the handset dials the entered destination address.

6.6 Network settings

For basic functionality IP address, subnet mask and default gateway has to be entered.
To use DHCP, just leave the IP address as 0.0.0.0. No other parameters are required. At reboot, the XIPmite 801 IP phone will get a dynamic IP address from the router.
An IP address of 255.255.255.255 will make the XIPmite 801 IP phone fetch an IP address via the BOOTP protocol.
The NAT IP address is the external IP address of the NAT router. This parameter is required by the SIP protocol if STUN is not used (see chapter **6.8**).



6.7 Web settings

If your network requires web traffic to go via a HTTP proxy,
the XIPmite 801 IP phone can be configured for this by entering the address of the HTTP proxy server.

6.8 SIP settings

If you have a SIP account with a broadband phone operator, these parameters are acquired from the operator:

- SIP address
- Username and password for the account
- SIP proxy and SIP registrar (often the same address)

For basic functionality, SIP port and RTP port has to be entered.

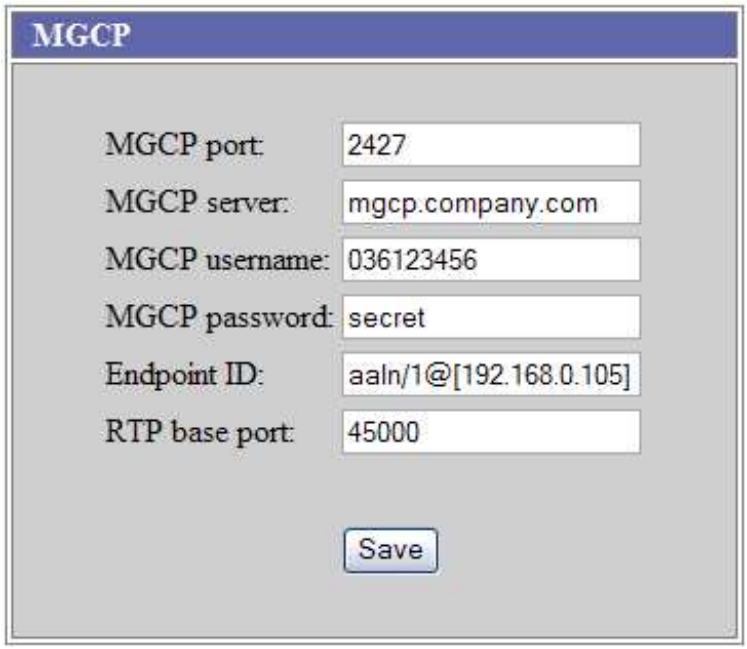
If SIP registrar is entered, the XIPmite 801 IP phone will register itself every 2 minutes, and you will be able to make and receive calls.

To be able to use the XIPmite 801 IP phone behind a NAT router without having to configure the router, set the address to a STUN server outside the LAN. This will detect and open the necessary router ports. If a STUN is not configured, the external NAT IP address of the router must be entered manually (see chapter **6.6**).
If STUN server is configured, STUN requests are made every 2 minutes to keep the NAT routers port mapping open. This port mapping can be viewed under 'Diagnostics' (see chapter **6.14** and **8.1**).

For advanced users:
The XIPmite 801 IP phone can also work as a STUN server for other phones. To use this function, place a XIPmite 801 IP phone outside the NAT router, and assign it a static IP address. Configure the IP phones within the NAT network to make STUN requests to that IP address.

6.9 MGCP settings

The MGCP parameters are acquired from your MGCP phone operator. The RTP base port parameter changes the same value as in SIP configuration, chapter **6.8**.

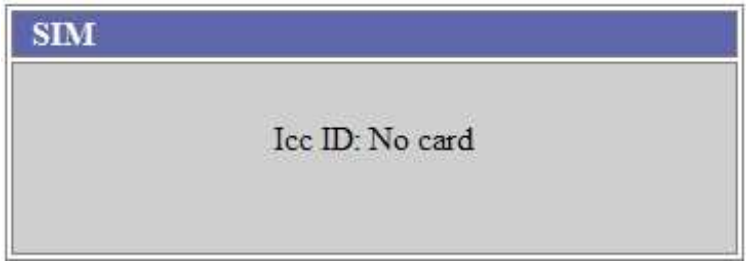


6.10 SIM card information

A SIM card is a convenient and secure way of distributing account and configuration parameters.
If a SIM card is used, it can contain and configure all parameters in the phone.

The XIPmite 801 IP phone reads configuration data from the SIM card the first time a new SIM card is detected. Then the Icc-ID of that SIM card is saved.
If the same Icc-ID is detected again during next start-up, no configuration is read, and start-up is much quicker (0.8 sec).

In case of a detected SIM card, the Icc ID number is shown here. Else ‘No card’ is shown.



6.11 E-mail

New e-mail messages are shown in LCD, and can be read, deleted or replied to (see chapter **4.2** and **8.4**).
Clearing POP3 server disables this feature.

You can easily reply to a received e-mail by sending a voice e-mail.

For sending voice e-mails, SMTP server and e-mail address must be entered (see chapter **4.2** and **8.4**).

6.12 Clock

Actual GMT time is shown as fetched from a timeserver every 8 minutes.
Clearing TIME server disables this feature.
Daylight savings time is set by adjusting ‘Time zone’ one hour forward or backward.

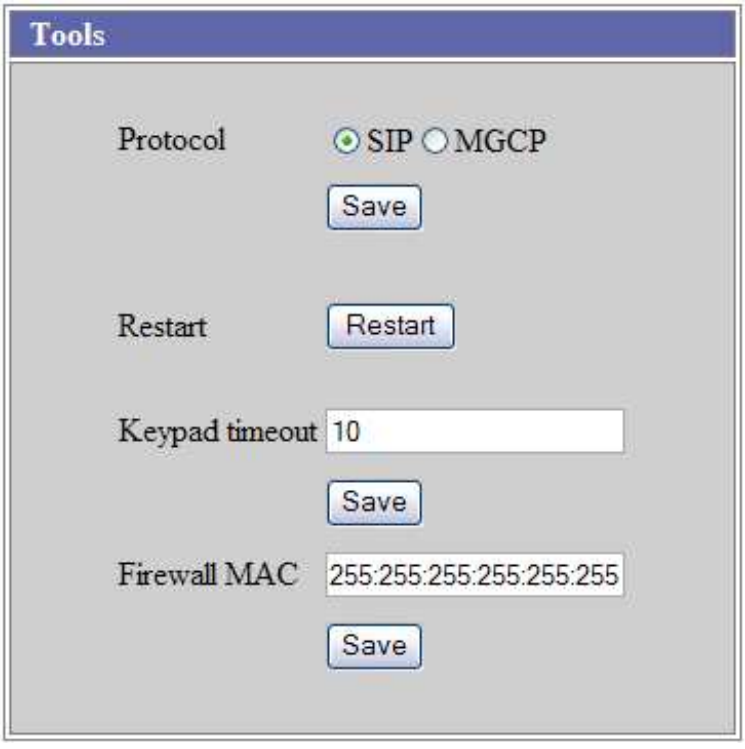
6.13 Tools

Select default telephony protocol, SIP or MGCP, to be used in outgoing calls. Two accounts may be configured and used at the same time, one SIP and one MGCP account.

Press ‘Restart’ to enable new IP settings and re-register with the SIP or MGCP server.

When entering a number to call or editing a text, the XIPmite 801 IP phone automatically calls or saves text after a timeout of keypad inactivity. Setting this parameter to 255 disables this feature.

The firewall MAC address defines one MAC address only that is allowed to communicate with the XIPmite 801 IP phone. This prevents other network equipment from accessing the phone. Setting the address to 255:255:255:255:255:255 disables this feature.

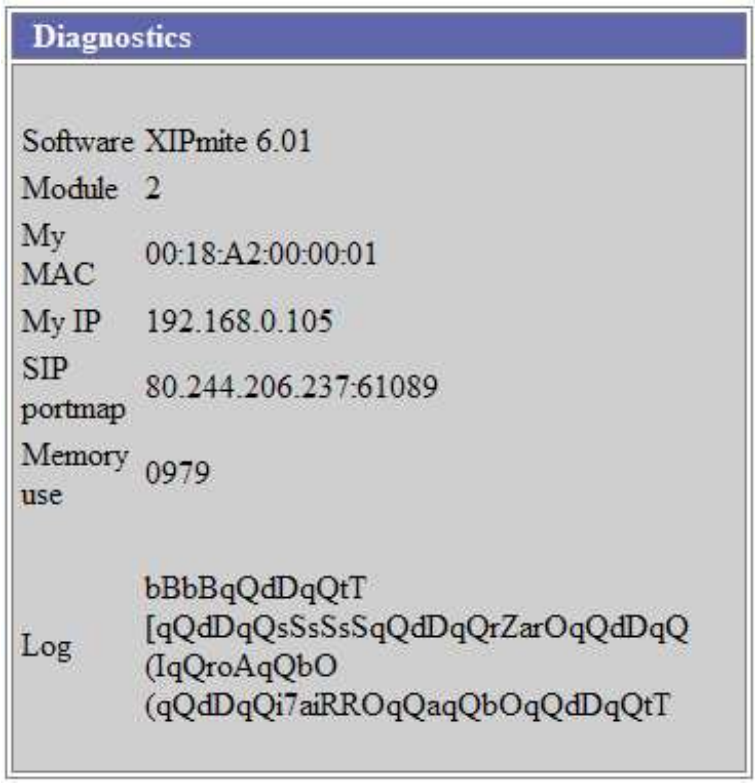


6.14 Diagnostics

In an error situation, the diagnostics can easily spot the problem. The network log is a powerful network analyzer, helping to isolate where the network fails.

Diagnostics shown:

- Software version
- Installed add-on module
- My MAC address
- My IP address
- SIP port map detected by STUN protocol
- Current memory use
- Network log (see chapter **8.1.1**).



7 Edit text

Texts can be edited when working with the LCD menu, for example when changing settings, dialing a number or writing e-mails.

The menu button functions are:

- Button 1: Erases last entered character
- Button 2: Toggles numeric, lower or uppercase letters
- Button 3: Saves text
- Button 4: Exits without saving text

When toggling between numeric, lower or uppercase letters the arrow marker indicates selected mode.

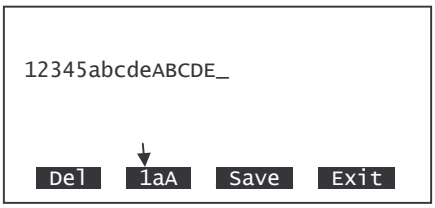
While editing a value, if waiting more seconds than the ‘Keyboard timeout’ value, the value is automatically saved (see chapter **6.13**, **8.3** or **9.4**).

In numeric mode (arrow marker points to ‘1’), numerical characters 0-9 or ‘*’ are written. The button ‘#’ saves the text.

In upper or lower case letters (arrow marker points to ‘a’ or ‘A’), several characters reside behind each button. Pressing same button repeatedly enables cycling between letters. Waiting more than 1 second writes the displayed character.
The following characters can be written:

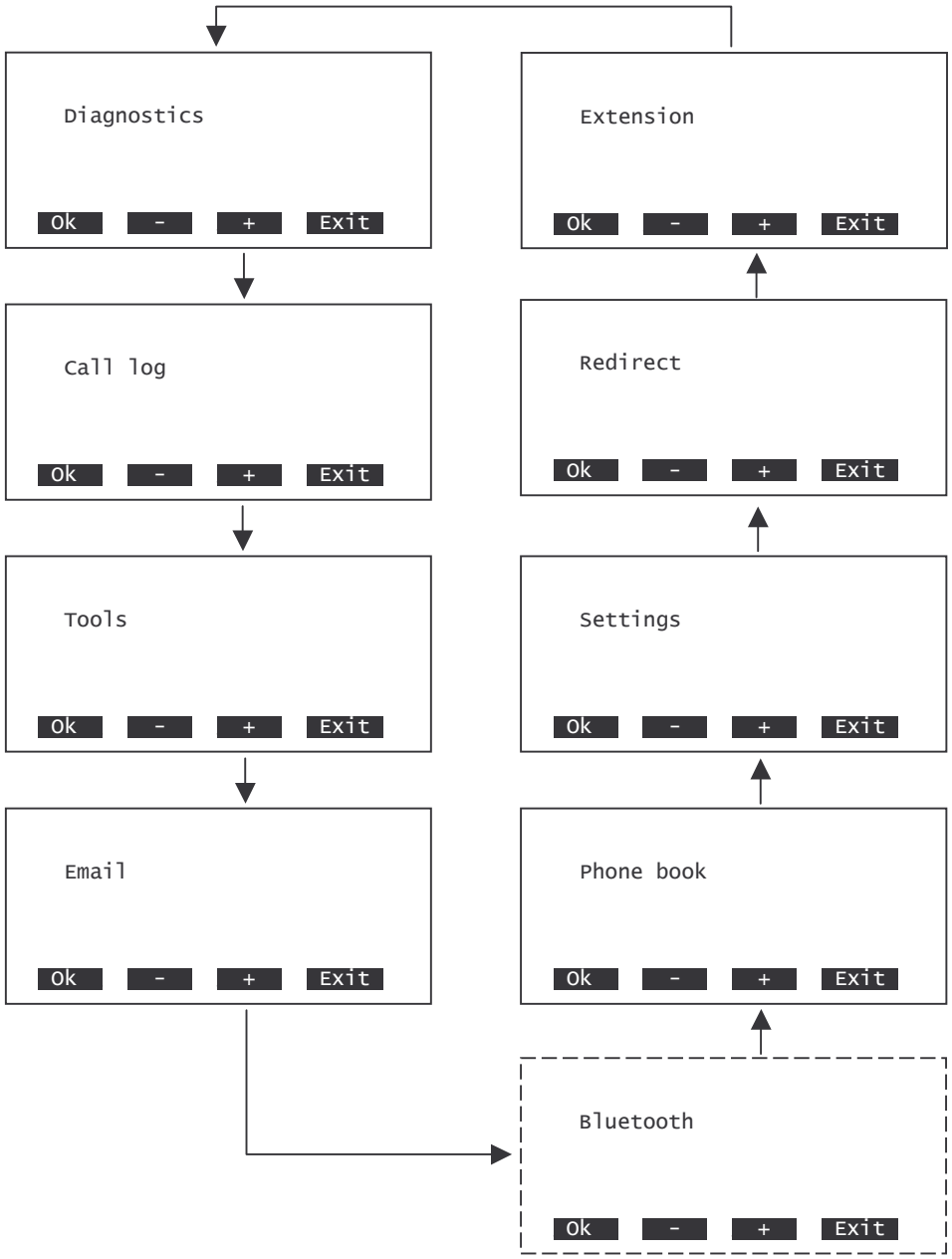
Key	Characters
1	.,:1&
2	abc2å
3	def3ä
4	ghi4"
5	jkl5$
6	mno6ö
7	pqrs7
8	tuv8\
9	wxyz9
0	*space*@/0%
*	-!?*_
#	+()#=

Example of editing text:



8 Management via the LCD menus

All settings can be changed via the built-in LCD menu system by pressing the ‘Function’ button.



When the ATA add-on module is installed, the above menu is still valid.

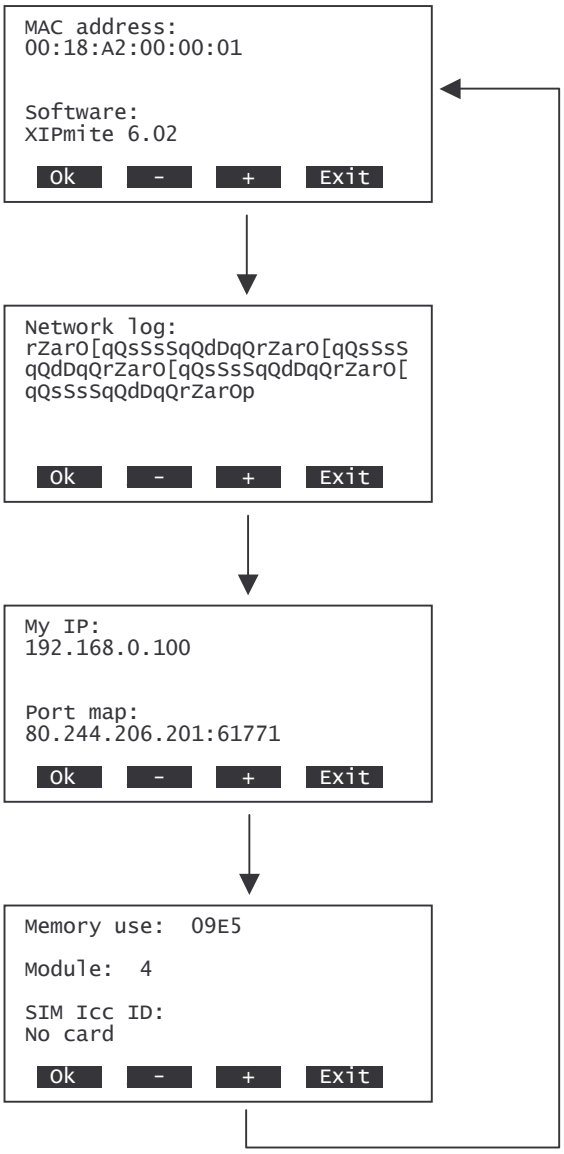
Menu visible when Bluetooth module inserted

8.1 Diagnostics

In an error situation, the diagnostics can easily spot the problem. The network log is a powerful network analyzer, helping to isolate where the network fails.

Diagnostics shown:

- My MAC address
- Software version
- Network log (see chapter **8.1.1**).
- My IP address
- SIP port map detected by STUN protocol
- Current memory use
- Installed add-on module
- SIM Icc ID



8.1.1 Network log

The network log is a powerful tool in helping fault management in case of network failures. Only the latest packets are saved.

Sent packets are displayed with lower case letters and received packets are displayed with upper case letters according to the list below.

8.1.1.1 Events

(	Start of new call
[	Start of SIP REGISTER
+	Retransmission

8.1.1.2 Received packets

Q	ARP reply
B	BOOTP/DHCP reply
S	STUN
D	DNS reply
N	ICMP
I	SIP INVITE
C	SIP CANCEL
O	SIP OK
A	SIP ACK
B	SIP BYE
M	SIP MESSAGE
3	SIP 3xx
4	SIP 4xx
5	SIP 5xx
6	SIP 6xx
R	SIP 18x (Ringing)
U	SIP 486 Busy
Z	SIP 401 Unauthorized
7	SIP 407 Proxy authentication required
G	Multi media mode connect
E	XIP extension protocol

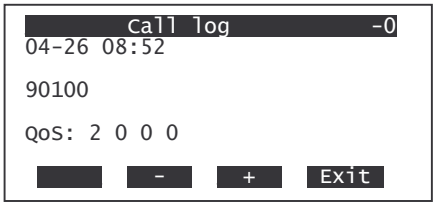
8.1.1.3 Sent packets

q	ARP request
p	ARP reply
n	ICMP
b	BOOTP/DHCP request
s	STUN request
d	DNS request
i	SIP INVITE
c	SIP CANCEL
o	SIP OK
a	SIP ACK
b	SIP BYE
r	SIP REGISTER
r	SIP 180 Ringing
y	SIP 486 Busy
f	SIP 302 Forward
m	SIP MESSAGE
e	XIP extension protocol

8.2 Call log

The call log displays incoming, outgoing and missed calls together with time and Quality of Service parameters (QoS).
The QoS parameters show the number of packet loss, buffer under-run, buffer over-run and packet disorders during a call.

To dial a number from the call log, just lift hook or press speaker button while the desired number is shown.



8.3 Tools

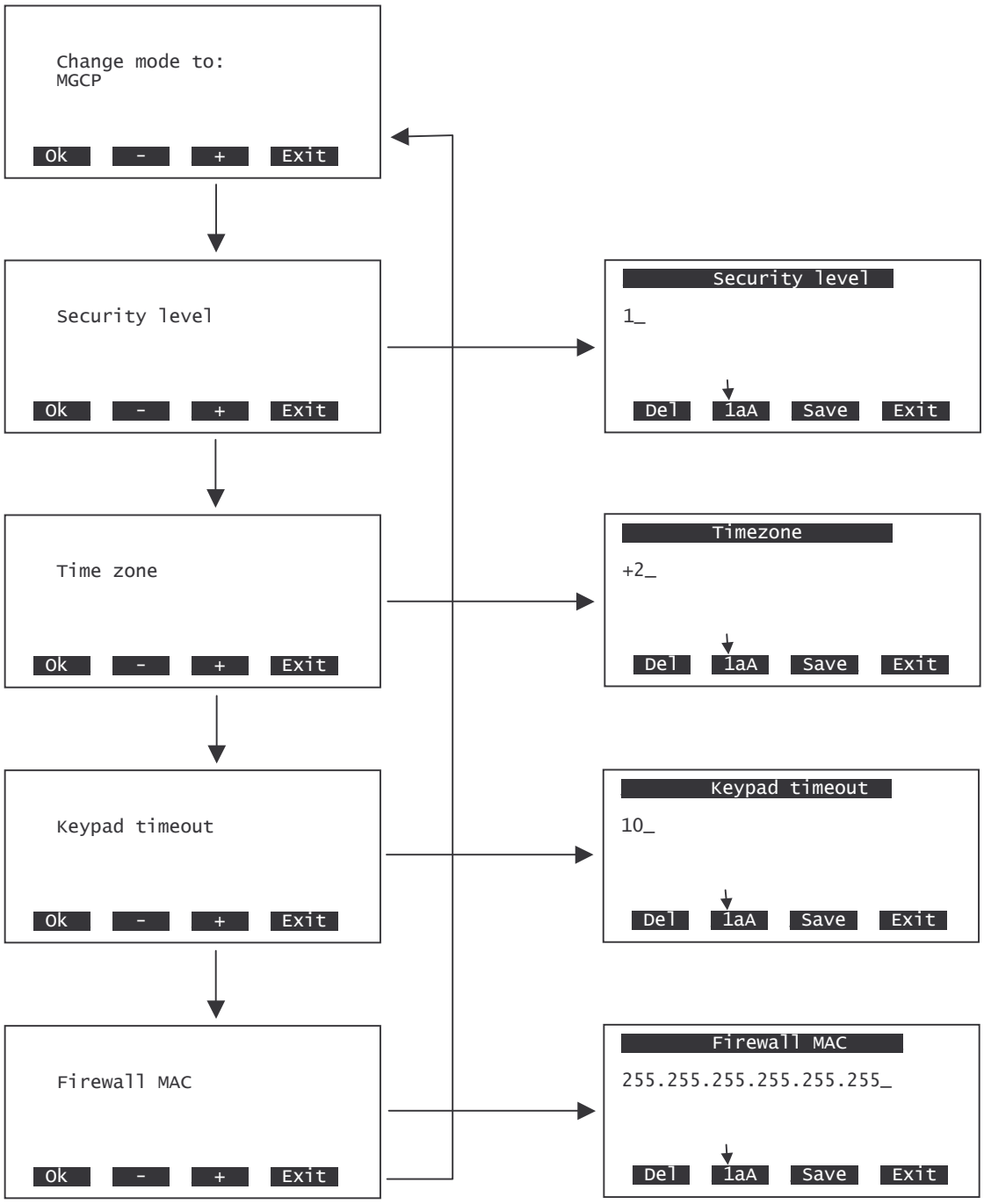
Switch between default protocol, SIP or MGCP, to use in outgoing calls.

Security level 0-7 protects the phone. Default level is 1 (see chapter **5.4**).

Time zone.
The value is +/– GMT.
Daylight savings time is set by adjusting ‘Time zone’ one hour forward or backward.

Keypad timeout.
When entering a number to call or editing a text, the XIPmite 801 IP phone automatically calls or saves text after a timeout of keypad inactivity.
Setting this parameter to 255 disables this feature.

The firewall MAC address defines one MAC address only, that is allowed to communicate with the XIPmite 801 IP phone. This prevents other network equipment from accessing the phone.
Setting the address to 255:255:255:255:255:255 disables this feature.


Change mode to:
MGCP
Ok - + Exit
Security level
Ok - + Exit
Security level
1_
Del 1aA Save Exit
Time zone
Ok - + Exit
Timezone
+2_
Del 1aA Save Exit
Keypad timeout
Ok - + Exit
Keypad timeout
10_
Del 1aA Save Exit
Firewall MAC
Ok - + Exit
Firewall MAC
255.255.255.255.255.255_
Del 1aA Save Exit

8.4 E-mail

If a POP3 server is configured, the XIPmite 801 IP phone looks for new e-mails every 4 minutes.

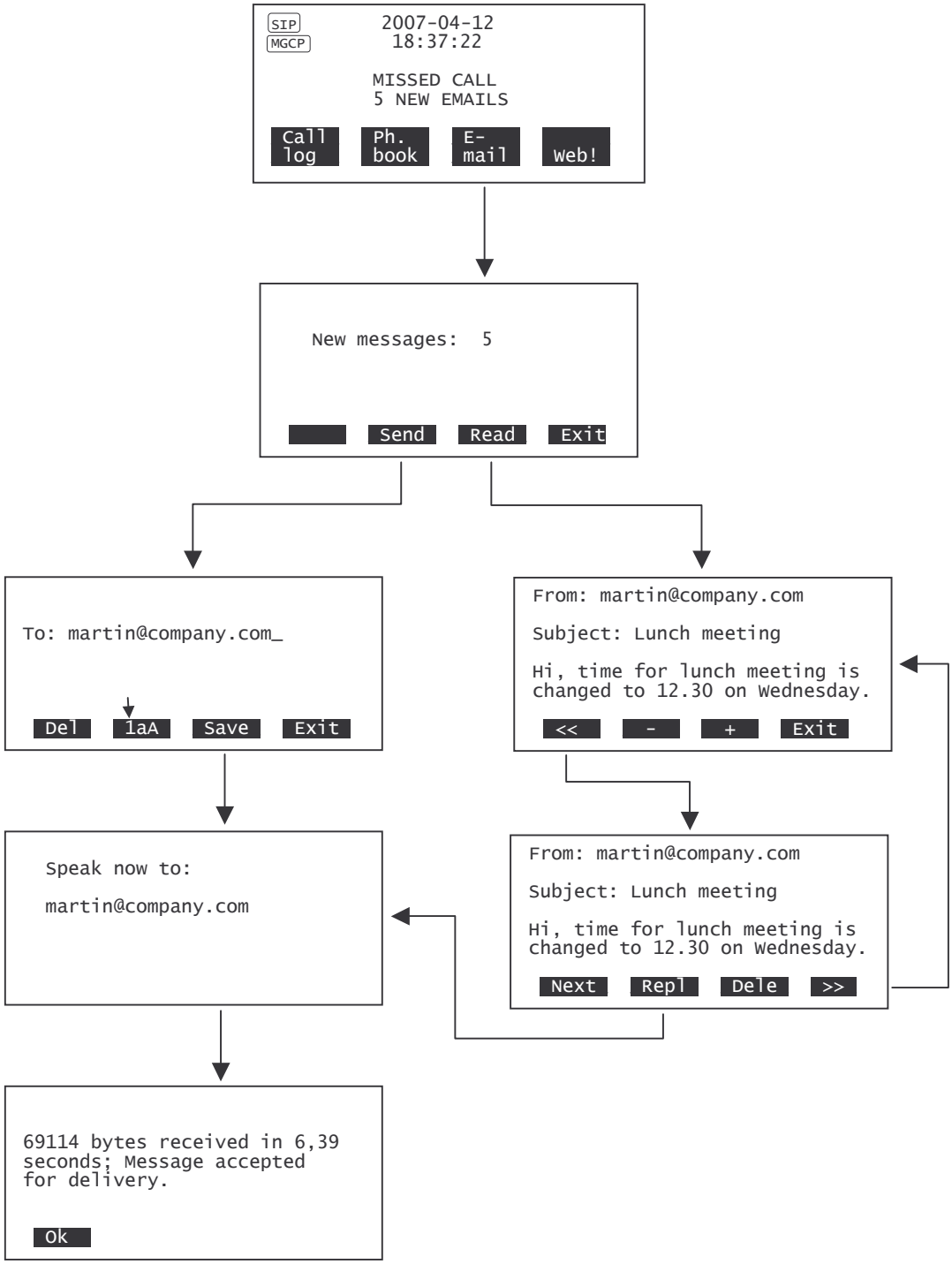
If a new e-mail arrives, the XIPmite 801 IP phone indicates this on LCD, and lights the red indication lamp.

By pressing the ‘E-mail’ button, e-mails can be read or sent.

A read e-mail can be deleted or replied to.

New e-mails and replies are sent as voice-e-mails, attached sound files that can be played back in the recipient’s computer.

Entering an e-mail address when dialing also sends new e-mails (see chapter **4.2).**

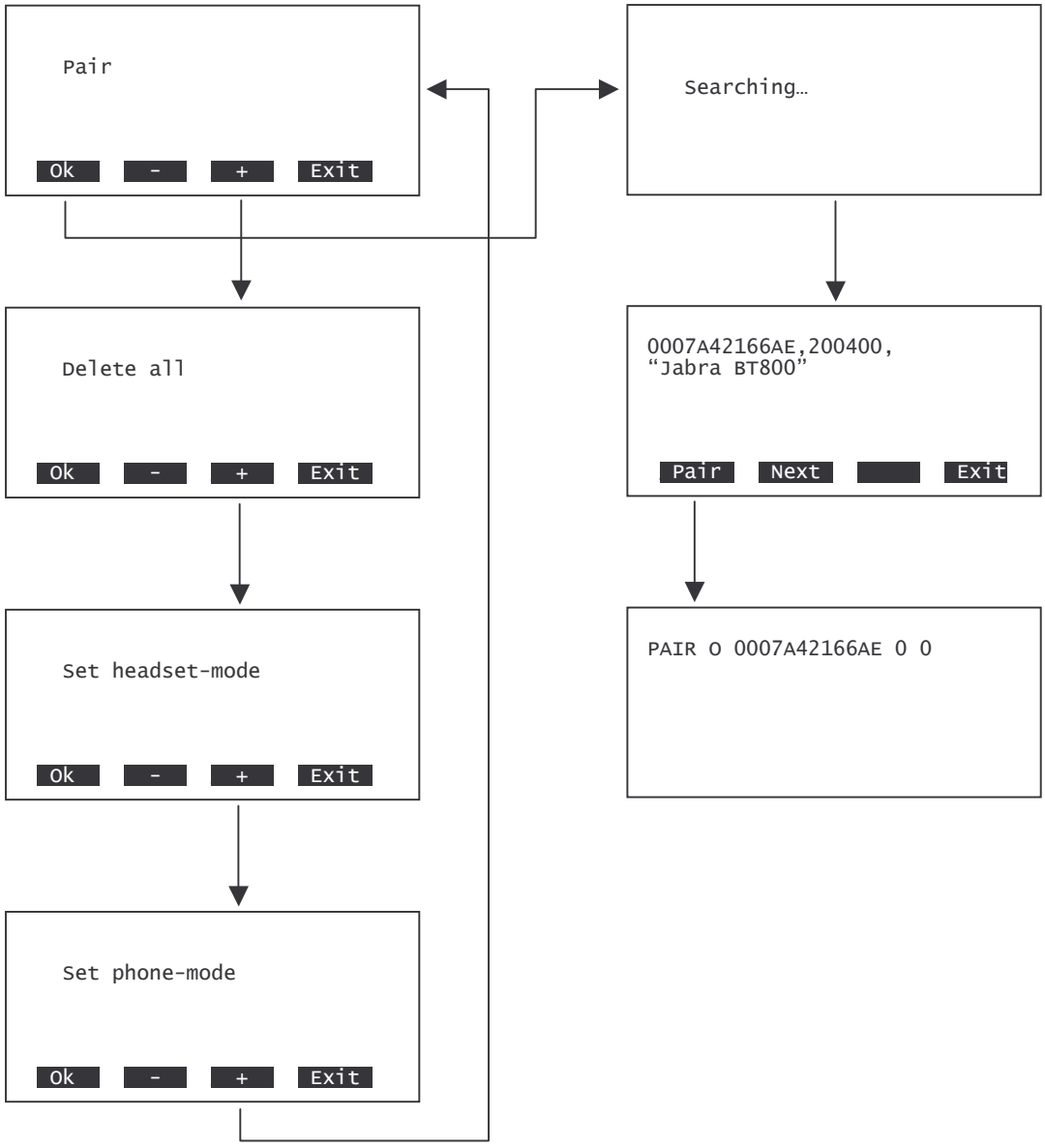

SIP
MGCP
2007-04-12
18:37:22
MISSED CALL
5 NEW EMAILS
Call log
Ph. book
E-mail
Web!
New messages: 5
Send
Read
Exit
To: martin@company.com_
Del
1aA
Save
Exit
From: martin@company.com
Subject: Lunch meeting
Hi, time for lunch meeting is changed to 12.30 on Wednesday.
<<
-
+
Exit
Speak now to:
martin@company.com
From: martin@company.com
Subject: Lunch meeting
Hi, time for lunch meeting is changed to 12.30 on Wednesday.
Next
Repl
Dele
>>
69114 bytes received in 6,39 seconds; Message accepted for delivery.
Ok

8.5 Bluetooth and PS2

(This is an optional module, to be acquired separately).
If a XIPmite 802 Bluetooth module is installed, the XIPmite 801 IP phone can communicate via the Bluetooth protocol with cordless headsets or mobile phones. This module also makes it possible to connect a PS2 keyboard, to be used while editing text.

- Pair with devices. Default password is ‘0000’.
- Delete all saved pairings.
- Setting ‘headset-mode’ makes the XIPmite 801 IP phone communicating with Bluetooth mobile phones.
- Setting ‘phone-mode’ makes the XIPmite 801 IP phone communicating with Bluetooth headsets.

The example below shows a pairing sequence with a “Jabra BT800” Bluetooth headset.



8.6 ATA (Analog Telephone Adapter)

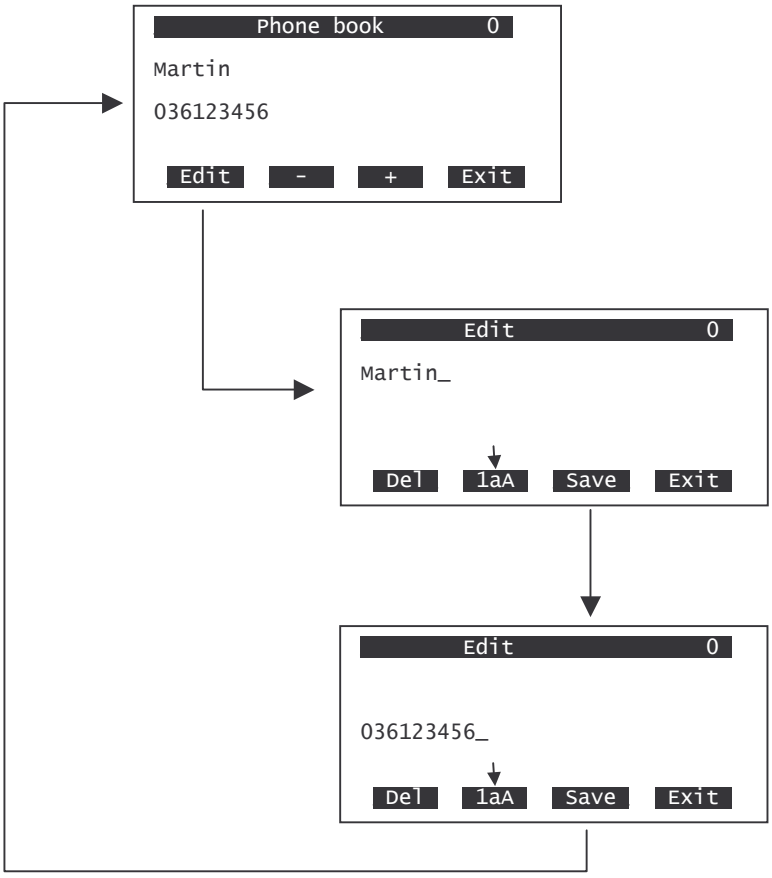
This is an optional module, to be acquired separately.

No menu configuration is needed for this module.

8.7 Phone book

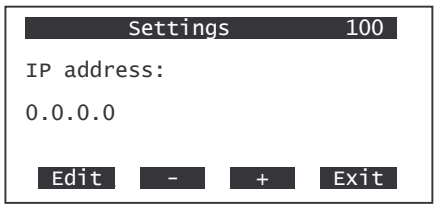
The phone book stores 100 names and numbers, and can be accessed by pressing the ‘Phone book’ key.

Lifting the hook or pressing the speaker button while the desired phone book entry is showed, dials the current phone book entry.

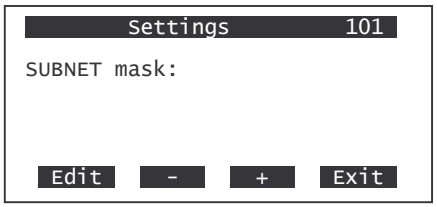


8.8 Settings

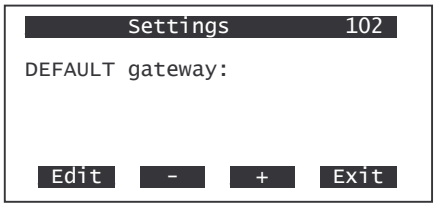
Most settings can be altered in this menu.



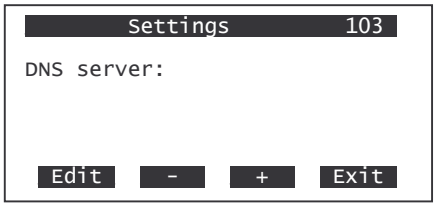
An IP address of 0.0.0.0 makes the XIPmite 801 IP phone fetch an IP address via DHCP. 255.255.255.255 gets an IP address via BOOTP.



Subnet mask is not needed to enter if DHCP is activated (IP address 0.0.0.0).

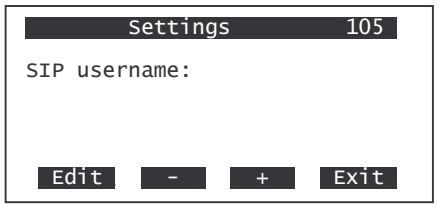


Default gateway is not needed to enter if DHCP is activated (IP address 0.0.0.0).

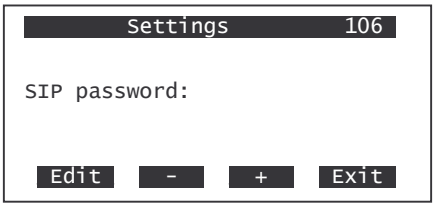


DNS server is not needed to enter if DHCP is activated (IP address 0.0.0.0).

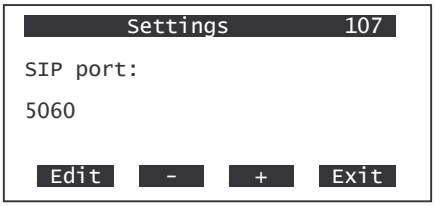
The SIP address of the SIP account.



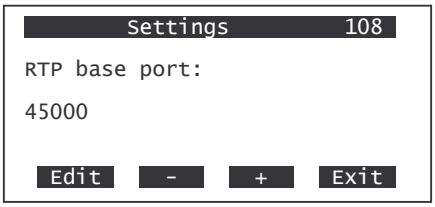
The user name of the SIP account.



The password of the SIP account.

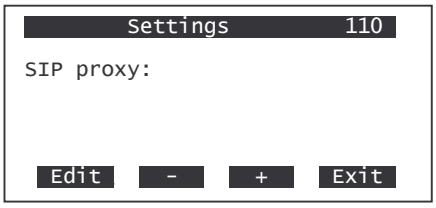


This is the port that XIPmite 801 listens at incoming SIP traffic.

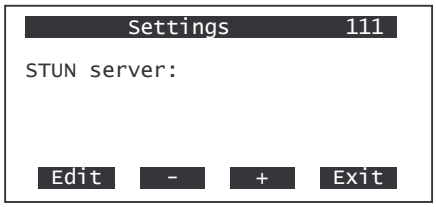


This is the base port for RTP traffic.
If a second call is active, it will use the base port number plus 1.

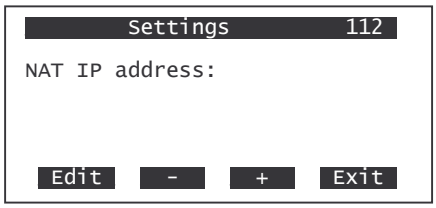
If a SIP registrar is configured, XIPmite will send a SIP register attempt every 2 minutes.



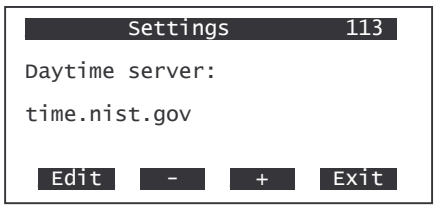
The SIP proxy server, where SIP calls is sent.



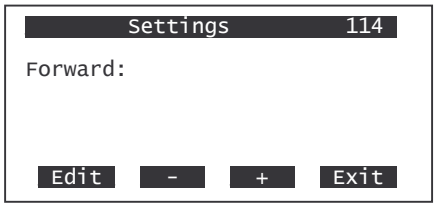
If a STUN server is configured, the XIPmite 801 IP phone can communicate through a local firewall, without any reconfiguration of it. If configured, XIPmite will send STUN requests every 2 minutes.



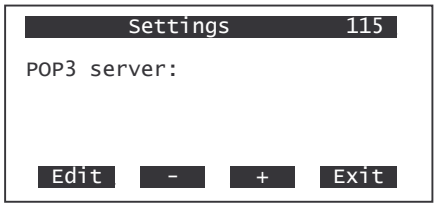
If the XIPmite 801 IP phone is installed in a NAT network and no STUN server is configured, the external IP address of the router must be manually configured.



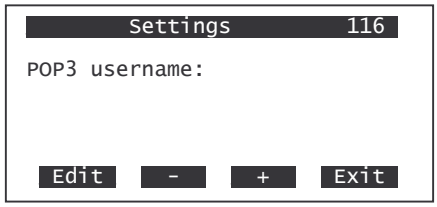
If a daytime server is configured, the XIPmite 801 IP phone will automatically get the correct time, displayed in the LCD. If configured, XIPmite 801 IP phone will send a time request every 8 minutes.



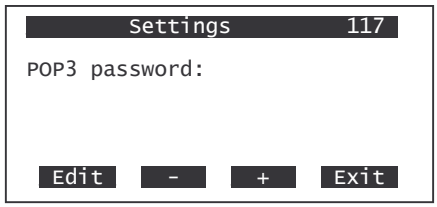
The forward number can also be set in the ‘Redirect’ menu.



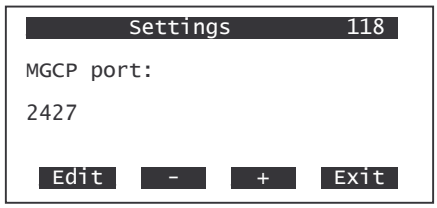
If a POP3 server is configured, the XIPmite 801 IP phone will check for new e-mails every 4 minutes.



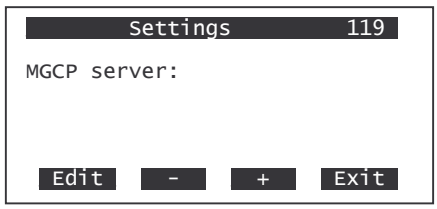
The user name of the POP3 account.



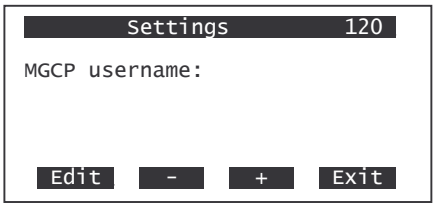
The password of the POP3 account.



The default port for MGCP communication.

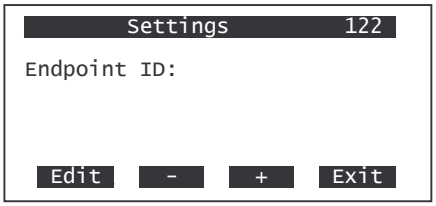


The MGCP server, where MGCP requests are sent.

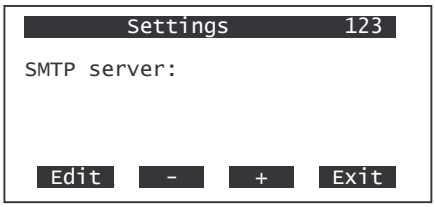


The user name of the MGCP account.

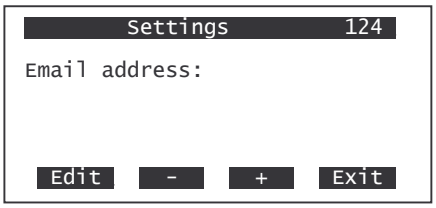
The password of the MGCP account.



Endpoint ID for MGCP communication.



SMTP server is required if replying to, or sending new e-mails.

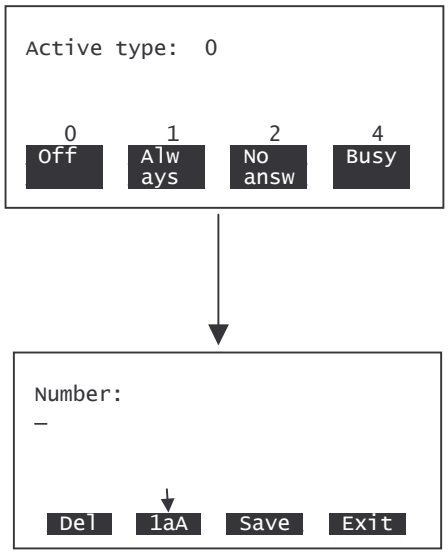


My e-mail address. Used during sending of e-mails.

8.9 Redirect

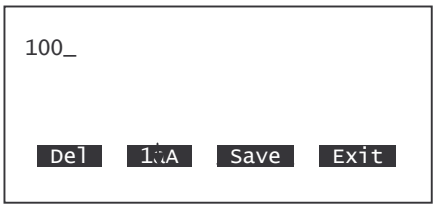
This function makes the phone itself send a redirect message.
Some broadband phone operators do not allow this, and has other ways of centrally redirecting calls.

Redirection can be either:
- Off
- Always on
- If no answer within 25 seconds (~5 ring signals)
- If busy



8.10 Extension

Set up an office switch or intercom by assigning an extension number to each phone on the LAN.
Once entered, all other XIPmite 801 IP phones on the LAN can find and dial your extension without any further configuration.



9 Management via the keypad

Commands via the keypad has to be done with HOOK ON
A correctly entered command is responded to by four beeps.

9.1 Restart phone

* 00 #

9.2 Run add-on program

* 11 #

9.3 Set time and date

* 22 * yr*mon*day*hr*min*sec #

9.4 Set keypad timeout

* 27 * value #

9.5 Set security level

* 28 * value # (see chapter **5.4**)

9.6 Set SIP or MGCP mode

* 32 * mode # (0=SIP, 1=MGCP)

9.7 Set time zone

* 54 * zone #

9.8 Set default settings

* 68 #

9.9 Change MAC address

The MAC address is pre-set at delivery. This setting does not normally need to be changed!
(Convert the 6 hexadecimal values to decimal and enter with * between them.)

* 69 * *1*2*3*4*5*6* #

9.10 Firewall MAC

* 70 * *1*2*3*4*5*6* #

9.11 LCD contrast

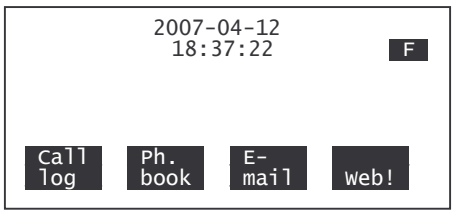
* 71 #	decrease
* 72 #	increase

10 Basic phone reset

In case of an error during an interrupted software upgrade, the phone needs to be reset into factory default mode to be able to finish the upgrade:

- Take out the power cord and the SIM card.
- Hold down the far right menu button.
- While keeping the button pressed, insert power.
- The phone gets default settings, and prints an ‘F’ to indicate factory default mode.

While in factory default mode, new software upgrade attempts can be made to restore the XIPmite 801 IP phone into full function again.



11 Specifications

Interfaces

Ethernet	10Mbps, RJ-45 connector
Power	12V DC, 130 mA
Keypad	21 keys
LCD	128 x 64 pixels graphic display

Physical

Dimensions	130 x 175 x 45 mm
Weight	0,46 kg
Colour	Titan

Standards

Approval	CE-marking
Internet	Ethernet, IP, TCP, UDP, DHCP, BOOTP, DNS, ARP, ICMP, STUN
E-mail	POP3, SMTP
Management	HTTP, HTML, Telnet
Phone	SIP, MGCP, RTP, XIP

Calling features

Direct dial to phone number
Direct dial to SIP address
Direct dial to IP address
Direct dial to extension number
Direct dial to call log entry
Direct dial to phone book entry
Direct dial to speed dial number
Calling via web interface
Mute function
Call hold function
Call waiting function
Call forward function

Other features

Management of all functions via web or keypad
Alerting, reading, answering and deleting of new e-mails
Sending voice e-mails as attached files to e-mails

Network features
Software upgradeable via IP
Built-in web browser
Can use STUN server to go through NAT router
QoS statistics of last call
Built-in network analyzer
Built-in firewall
Automatic assignment of IP address via DHCP or BOOTP protocols
Answers on ICMP echo requests (ping)

Environmental

Operating Temperature	0^{o} ~ 50^{o}C
Storage Temperature	-20^{o} ~ 60^{o}C
Relative humidity	5 ~ 95%, non-condensing
Operating altitude	0 ~ 10,000ft

Specifications

Audio	Full duplex audio
Compression	G.711 A-law/U-law, 64 Kbps
Management	HTTP, Telnet, LCD menus, keypad